

ARCS PROCEDURE:	BBSS DCP START UP	PRO(BBSS)-015.000
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BBSS DCP Start Up

I. Purpose:

This procedure outlines the startup of the DCP after a long period of power failure or when the DCP output power switch is turned off. After each balloon flight, temp messages will be sent to the DCP automatically and then on to GOES and then to WMO every three hours.

II. Cautions and Hazards:

- This procedure should be done one step at a time as long as the DCP stays on. Do not turn the DCP off. The DCP should stay on at all times. The DigiCora and printer can be turned off after completing a balloon launch sonding.

III. Requirements:

None.

IV. Procedure:

A. Steps:

1. Turn power on to DigiCora, DCP, and the printer.
2. Pull out and flip the DCP switch on.
3. When the program menu appears, check the time on the DigiCora and accept it if it is correct.
4. Initialize DCP by using the Laptop running Hyperterm (4800, no, 8, 1, no) and connect it directly to the J1 Programmer Port on the DCP. There should be a cable specific for this setup.
 - The BBSS Laptop can be used with this procedure using the hyperterm from the start up menu by temporarily switching cables on PC RS-232 serial port from DigiCora to DCP.
5. Press <CR> on the Laptop running Hyperterm. The DCP should respond with the following:
 - MEMORY LOST-
 - PRESS <ESC>-
6. Press <ESC>. The DCP should respond with the following:
 - SYNERGETICS SEAS 1.2.1/1
 - >P
7. If this is successful, disconnect the Laptop and attach the cable from the DCP programmer port to the DigiCora port P2.

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8. Check all connections to the back end of the DigiCora where it should already be connected:
 - P4 to BBSS Laptop running PCMF
 - P2 to DCP J1 programmer port
 - P3 to Black Box Bit Driver then to ADaM
 - P1 to Okidata Printer
9. Run METSENT on theDigiCora.
10. Press SetUp. The DCP Master Control Module active light will come on. The date should come up.
11. Press Accept and wait. It will take a few minutes to send the date to the DCP.
12. When blinking stops, press Exit.
13. Press BATSEND.
14. Press SetUp. The DCP Master Control Module active light will come on again. The date should come up.
15. Press Accept and wait. It takes a few minutes to send the date to the DCP.
16. Exit and the program menu will re-appear.
 - To check if DCP is initialized after going through steps 1-16, connect PC running Hyperterm (4800, no, 8, 1, no) and connect directly to DCP Programmer Port. On the Laptop running Hyperterm, hit <CR>. You should see >S. This indicates that there will be connections between DigiCora and DCP.
17. If this is successful, continue on with the regular procedure for a balloon launching.
18. Start PCMF on BBSS Laptop.
19. On DigiCora, press Sond.
20. Press strData and go_on...etc...

V. References:

1. BBSS Launch Operations Procedure

VI. Attachments:

None.